



2SD667

NPN SILICON TRANSISTOR

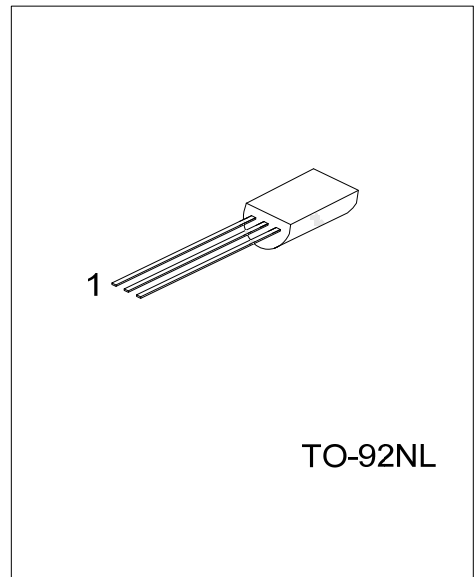
SILICON NPN EPITAXIAL

DESCRIPTION

The UTC **2SD667** is a NPN epitaxial silicon transistor, which can be used as a low frequency power amplifier.

FEATURES

- * Low frequency power amplifier
- * Halogen Free



ORDERING INFORMATION

Ordering Number	Package	Pin Assignment			Packing
		1	2	3	
2SD667G-T9N-B	TO-92NL	E	C	B	Tape Box
2SD667G-T9N-K	TO-92NL	E	C	B	Bulk

<p>2SD667G-T9N-B</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Halogen Free</p>	<p>(1) B: Tape Box, K: Bulk</p> <p>(2) T9N: TO-92NL</p> <p>(3) G: Halogen Free</p>
--	--

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	V_{CBO}	120	V
Collector to Emitter Voltage	V_{CEO}	100	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current	I_C	1.0	A
Collector Peak Current (Note2)	I_{CP}	2.0	A
Collector Power Dissipation	P_C	0.9	W
Junction Temperature	T_J	+150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

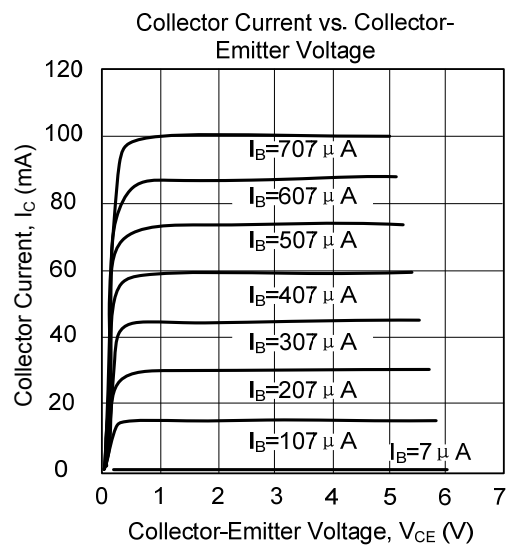
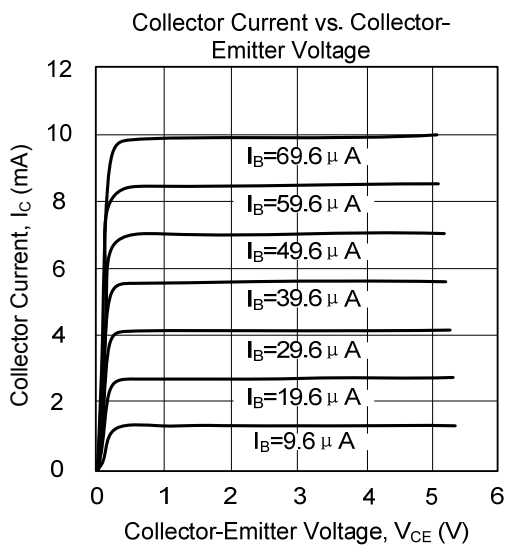
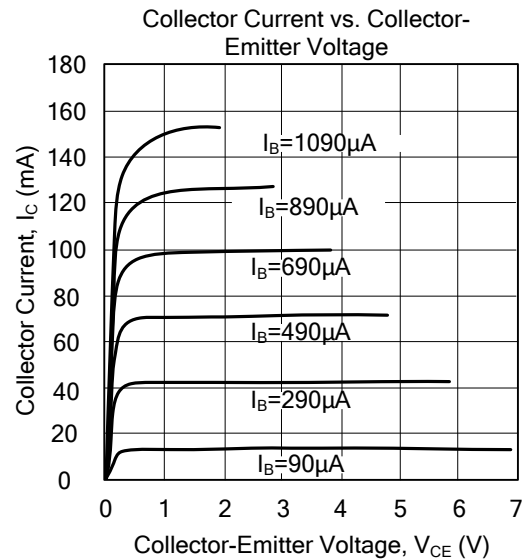
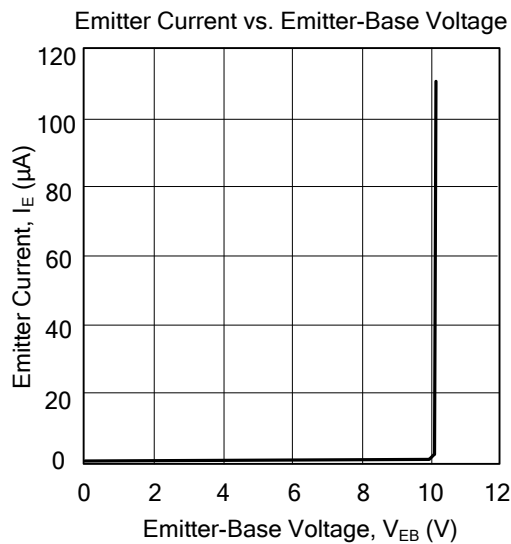
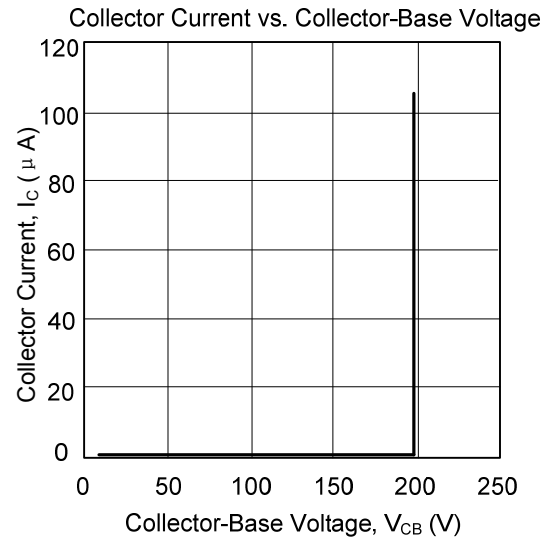
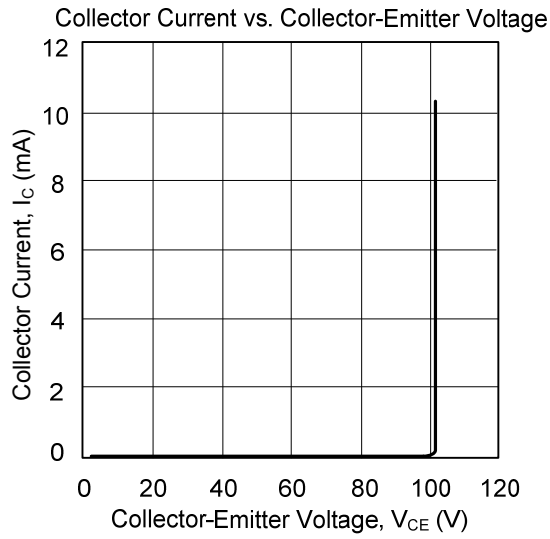
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. $PW \leq 10ms$, Duty cycle $\leq 20\%$

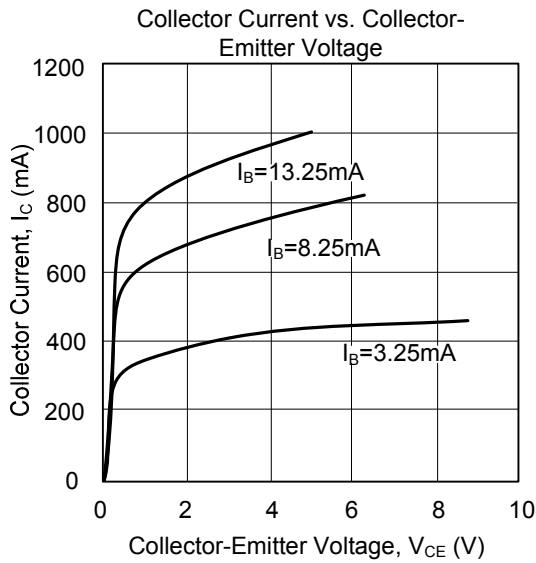
■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector to Base Breakdown Voltage	BV_{CBO}	$I_C=100\mu A, I_E=0$	120			V
Collector to Emitter Breakdown Voltage	BV_{CEO}	$I_C=10mA, R_{BE}=\infty$	100			V
Emitter to Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	6			V
Collector Cutoff Current	I_{CBO}	$V_{CB}=120V, I_E=0$			500	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=6V, I_C=0$			500	nA
DC Current Transfer Ratio	h_{FE1}	$V_{CE}=2V, I_C=150mA$	140		330	
	h_{FE2}	$V_{CE}=5V, I_C=1A$	40			
Collector to Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=500mA, I_B=50mA$			0.5	V
Base to Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=500mA, I_B=50mA$			1.1	V

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.